(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau

TIPO OMPI

PCT

US 33. 2005

(43) International Publication Date

3) International Publication Date 5 August 2004 (05.08.2004)

(51) International Patent Classification7: A61K 38/00

(21) International Application Number:

PCT/US2004/001468

(22) International Filing Date: 21 January 2004 (21.01.2004)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

60/441,772

21 January 2003 (21.01.2003) US

(71) Applicant (for all designated States except US): GENER-VON BIOPHARMACEUTICALS LLC [US/US]; 830 North Wilcox Avenue, Montebello, CA 90640 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): CHAU, Raymond Ming, Wah [CN/CN]; Tower 10, 51/F, Unit D, Tierra Verde, Tsing Yi, Northern Territories, Hong Kong (CN). KO, Tiu-Yak, Dorothy [US/US]; 830 North Wilcox Avenue, Montebello, CA 90640 (US).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

(10) International Publication Number

WO 2004/065410 A3

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW. GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CII, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments
- (88) Date of publication of the international search report:
 16 December 2004

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: MNTF PEPTIDES AND COMPOSITIONS AND METHODS OF USE

(57) Abstract: The present invention is directed to novel peptides and compositions capable of modulating viability and growth in neuronal cells, and to methods of modulating neuronal cell viability and growth employing the novel peptides and compositions of the invention. In one aspect, the invention is directed to novel peptide analogues of motoneuronotrophic factor 1 containing either a "WMLSAFS" or "FSRYAR domain," which is sufficient for neurotrophic or neurotropic function.



INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/01468

A. CLAS	SIFICATION OF SUBJECT MATTER		
IPC(7)	: A61K 38/00		
US CL	: 514/12 International Patent Classification (IPC) or to both n	ational classification and IPC	
B. FIEL	DS SEARCHED		
	cumentation searched (classification system followed	hy classification symbols)	
Minimum do U.S.: 5		of demonstration of moore,	
0.5 5	17/12		
		average that much dominants are include	d in the fields searched
Documentation	on searched other than minimum documentation to the	e extent that such documents are include	d til die tields seatened
Electronic da	ta base consulted during the international search (nan	ne of data base and, where practicable,	search terms used)
STIC-Sequen	ce search of SEQ ID NOS: 1-7. East.		
C. DOC	JMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where ap	propriate, of the relevant passages	Relevant to claim No.
A	US 2002/0086831 A1 (CHAU) 04 July 2002 (04.07	2.2002), entire document, especially	1-31
	SEQ ID NO: 4 (full length 33 residue peptide of Ap	plicant's SEQ ID NO: 1), claims, and	
	para, 56.	•	
	VID C 200 977 Dt (CHAID 20 October 2001 (20 10	2001) entire document especially	1-31
A	A US 6,309,877 B1 (CHAU) 30 October 2001 (30.10.2001), entire document, especially SEQ ID NO: 4 (full length 33 residue peptide of Applicant's SEQ ID NO: 1), claims.		
	SEQ ID NO. 4 (Inn. length 55 losides popular of rep	P	
		•	,
			,
Purthe	documents are listed in the continuation of Box C.	See patent family annex.	
* (pecial categories of cited documents:	"T" later document published after the in priority date and not in conflict with	itemational filing date or i the application but cited to
"A" documen	t defining the general state of the art which is not considered to	understand the principle or theory u	nderlying the invention
be of pa	ricular relevance .	"X" document of particular relevance; th	e claimed invention cannot be
	pplication or patent published on or after the international filing	considered novel or cannot be consi step when the document is taken alo	
date		·	
"L" documen	it which may throw doubts on priority claim(s) or which is cited ish the publication date of another citation or other special reason	"Y" document of particular relevance; the considered to involve an inventive a	tep when the document is
(as spec	fied)	combined with one or more other st combination being obvious to a pen	ich documents, such
"O" documen	at referring to an oral disclosure, use, exhibition or other means		
		"&" document member of the same pater	it family
"P" document published prior to the international filing date but later than the priority date claimed.			
Date of the actual completion of the international search		Date of mailing of the international se	".T'2004
01 October	2004 (01.10.2004)	230	J 1 = 0 0 -
Name and mailing address of the ISA/US		Authorized officer	
Mail Stop PCT, Attn: ISA/US		Maury Audet / Q CONS	Bell-164
	mmissioner for Patents D. Box 1450	- Calebra	neg roa
Al	2. Box 1430 exandria, Virginia 22313-1450	Telephone No. 572-272-0960	AN
	o. (703) 305-3230		ω

Form PCT/ISA/210 (second sheet) (July 1998)